



FEDERAL SECURITY AGENCY
PUBLIC HEALTH SERVICE
WASHINGTON 25, D. C.

IN REPLYING, ADDRESS THE
PUBLIC HEALTH SERVICE

REFER TO:

Tuberculosis Research Laboratory,
411 East 69th St., New York 21, N. Y.

October 10, 1950.

Dr. Joshua Lederberg,
Department of Genetics,
The University of Wisconsin,
College of Agriculture,
Madison 6, Wisconsin.

Dear Joshua:

We are sending you under separate cover the following set of K-12 mutants. I haven't worked with most of these; Gordon found rather low recombination rates in some cases.

<u>W</u>	<u>Number</u>	<u>Requirements</u>	<u>Ancestry</u>
1331	J4-5	trypt hist lac ⁻	J1-0, J2-6 (trypt)
1332	J4-13	trypt ser/glyc lac ⁻	" "
1333	J5-3	prol meth	K-12, J1-3 (prol)
1334	J5-7	prol ser/glyc	" "
1335	J5-10	prol hist	" "
1336	J6-2	trypt hist prol lac ⁻	J4-5 (trypt hist lac ⁻)
1337	J6-6	trypt hist (IL & V) lac ⁻	"
1338	J7-2	prol meth leuc	K-12, J5-3 (prol meth)
1339	J7-12	prol meth trypt	" "
1340	J7-13	prol meth compt of VP	" "
1341	J7-22	prol meth (IL & V)	" "
1342	J8-1	prol (IL & V) hist	W759 (prol IL & V)
1343	J9-3	M threon lac	Y87
1344	J9-33	M trypt lac ⁻	"
1345	J9-43	M glyc/ser lac ⁻	"
1346	J9-60	M IL V(rel) lac ⁻	"
1347	J10-13	M trypt hist lac ⁻	J9-33
1348	J11-1	M hist ser/glyc lac ⁻	J9-45
1349	J11-4	M hist (IL & V) lac ⁻	"
1350	J11-5	M hist unkn lac ⁻	"
1351	J11-6	M hist prol lac ⁻	"
1352	J12-1	M IL V(rel) leuc lac ⁻	J9-60
1353	J12-3	M IL V(rel) arg lac ⁻	"
1354	J12-4	M IL V(rel) arg lac ⁻	"
1355	J12-5	M IL V(rel) prol lac ⁻	"
1356	J12-6	M IL V(rel) ser/glyc lac ⁻	"
1357	J12-10	M IL V(rel) hist lac ⁻	"
1358	J13-3	M hist	58-161
1359	J13-4	M IL/AAB (X-NK. butyr.)	"
1360	J-13-5	M Tyr	"
1361	J-13-6	M pro	"

*will grow on
Isolene, but
faster & vol.
added.*

Dr. Joshua Lederberg

October 10, 1950.

J1-0 is the *lac⁻ ancestor* parent of some of these, which was chosen because of the failure of its reversion rate to be appreciably affected by UV. Unfortunately we have lost this parent.

You will note that certain of these mutants have been derived from your own Y87 and 58-161.

With best regards,

Sincerely,

Bernie

Bernard D. Davis

BDD/hl

Things have been very quiet this fall - mostly trying to straighten out some confusion in the aromatic series. Apparently a few tenths of a pH unit can make the difference between good growth & no growth in the quintuples.